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(54) **PERIPHERAL TUNNELS PROPELLER WITH ALTERNATIVE BALANCE**

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(57) **ABSTRACT**

This disclosure is related with propeller noise and cavitation abatement in applications like propulsion, ventilation, pumping or turbine systems on fluids by novel techniques that allows stronger propellers with improved laminar flow by means of a propeller which consists on a rotating cylindrical block or a truncated substantially conical block with one or more tunnels around it rotational axis, said block also may have flow-guiding structures at both ends that help to keep the fluid's laminar flow when it is mixing fluids with its environment, having the rotating block tunnels with either substantially circular shaped cross-section or variable shape cross-section from substantially circular to irregular oval measured in perpendicular plane to the rotational axis whereby it smoothly accelerates fluid or gas by means of either centrifugal or axial movement, also including Dynamic Balance or Imbalance or Torque Modulation Means that modulate specific vibrations which generates sound waves.